## IN THE UNITED STATES PATE YT AND TRADEMARK OFFICE

In re application of:

Annie AUDTHERT et a.

Serial No..

09/779,857

Filed:

February 9, 2001

Group Art Unit:

1714

Examiner:

P. Szekely

**For:** 

CENIENT SILURRIES COMPRISING HYDROPHOBIC POLYMERS

## DECLARATION UNDER RULE 37 C.F.R. § 1,132

Assistant Commissioner for Patents

Washington D.C. 20231

Sir:

I, Guy Muller, duly warned, declare and say as follows:

THAT, I am a French citizen, residing at 7613) MONT-SAINT-AIGNAN (France);

THAT I gra luated in Chemistry ("University of Paris");

THAT I wa: received as a Doctor by "University of Rouen" (France) in December 1967;

THAT, I was engaged by "Centre National de la Recherche Scientifique" (France) in their Research D partment of Polymer Chemistry in 1964; that, from 1964 until now, I have actively and continuously conducted researches in the field of Hydrosoluble Polymers in Solution and at Interfaces.

I declare fur her:

THAT, I am familiar with the content of U.S. Patent Application Serial No. 09/779,857, filed February 9, 2001;

I declare fur her:

THAT, I have determined the molecular weights of polymers mentioned throughout the specification of this application by a light scattering method

The light seattering measurements were performed using a multi-angle laser light scattering photometer MALLS Dawn-F from Wyatt Technology Inc.) coupled on-line with a size exclusion of romato paph (SEC) and a differential refractive index detector (RI). The collected data were analyzed using the Astra v 4.50 software package.

As is known, the intensity of light scattered is proportionnal to the <u>weight</u> average molar mass  $M_w$  (see for example: P.J. Flory, "Principles of Polymer Chemistry", Cornell University Fress, Itliaca, 1953; and C. Tanford "Physical chemistry of Macromolecules", John Wiley and Sons, 1963, Chapter 3 "Statistics of Linear Polymers")

So, I can as sertain that the molecular weights of polymers I have determined are weight average molecular weights.

Anyhow, the typical practice in the art of well fluid additives is to measure the average molecular weight of polymer additives as a weight average. So the persons skilled in the art of well fluid additives, upon reading the specification, would understand, based on the contents of the specification and the typical practice in the art, that the average molecular weight ment oned in the application was the weight average.

I declare for her that all statements made here n of my own knowledge are true and that all statements made on information or belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishalle by fine or imprisonment, or both, under Section 1001 of Title 18 of United States Code, and that such willful false statements may jeopardize the validity of the application or any potent issuing thereon.

grey Ruller

Guy Muller

Date: Febru rry 27, ::003